

AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

LISTING OF CLAIMS:

1. (Currently amended) A triplate-type planar array antenna comprising:
an antenna circuit board-(3) on which an antenna circuit including a plurality of radiating elements-(5), which are vertically and horizontally arrayed in a two-dimensional manner, and feedlines-(6) is formed;
two pieces of dielectric substances-(2a, 2b) between which said antenna circuit board-(3) is sandwiched at the both sides;
a ground conductor-(1) laminated on one dielectric substance-(2b); and
a slot board-(4) laminated on the other dielectric substance-(2a), wherein said slot board-(4) has a plurality of slot openings-(7), each corresponding to said plurality of radiating elements-(5) with a linear arrangement.
2. (Currently amended) The triplate-type planar array antenna according to claim 1, wherein said plurality of slot openings-(7) are formed on said slot board (4) in series in the longitudinal direction of said slot openings-(7).
3. (Currently amended) The triplate-type planar array antenna according to claim 2, wherein a plurality of antenna circuits are formed on said antenna circuit board-(3), said plurality of slot openings-(7) are formed on said slot board-(4) in series in the longitudinal direction of said slot openings-(7), and the number of said plurality of slot openings-(7) corresponds to the number of said plurality of antenna circuits.

4. (Currently amended) The triplate-type planar array antenna according to claim 1, wherein a plurality of antenna circuits are formed on said antenna circuit board ~~(3)~~, and at least one slot opening ~~(7)~~ extending over at least two of said antenna circuits is formed on said slot board ~~(4)~~ in series in the longitudinal direction of said slot openings ~~(7)~~.

5. (Currently amended) The triplate-type planar array antenna according to claim 1 ~~any one of claims 1 through 4~~, wherein each array spacing for said plurality of slot openings ~~(7)~~ in a direction perpendicular to the longitudinal direction of said plurality of slot openings ~~(7)~~ is set at 0.85 through 0.93 times a free space wavelength corresponding to a center frequency of a frequency band in use.

6. (Currently amended) The triplate-type planar array antenna according to claim 1 ~~any one of claims 1 through 5~~, wherein each array spacing for said plurality of radiating elements ~~(5)~~ in the longitudinal direction of said plurality of slot openings ~~(7)~~ is set at 0.85 through 0.93 times a free space wavelength corresponding to a center frequency of a frequency band in use.

7. (New) The triplate-type planar array antenna according to claim 4, wherein each array spacing for said plurality of slot openings in a direction perpendicular to the longitudinal direction of said plurality of slot openings is set at 0.85 through 0.93 times a free space wavelength corresponding to a center frequency of a frequency band in use.

8. (New) The triplate-type planar array antenna according to claim 7, wherein each array spacing for said plurality of radiating elements in the longitudinal direction of said plurality of slot openings is set at 0.85 through 0.93 times a free space wavelength corresponding to a center frequency of a frequency band in use.